

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product identifier

| | |
|---------------------|---|
| Product name | Betaine bis(trifluoromethylsulfonyl)imide |
| Product code | IL-0347 |
| CAS | 915223-75-5 |
| REACH No. | A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|------------------------|---|
| Identified uses | Laboratory chemicals, Manufacture of substances |
|------------------------|---|

1.3 Details of the supplier of the safety data sheet

| | |
|------------------|---|
| Supplier | IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D – 74076 Heilbronn Germany |
| Telephone | +49 (0)7131-89839-0 |
| Fax | +49 (0)7131-89839-109 |
| Email | msds@iolitec.de |

1.4 Emergency telephone number

| | |
|----------------------------|---------------------|
| Emergency telephone | +49 (0)151-41255671 |
|----------------------------|---------------------|

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin Corrosion (Category 1B)

Eye Damage (Category 1)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Pictogram

Signal word

Danger

H-phrases

H314

Causes severe skin burn and eye damage.

P-phrases

P260

Do not breathe mist/ spray.

P264

Wash skin thoroughly after handling.

P280

Wear protective gloves/ protective clothing/
eye protection/ face protection.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT
induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Remove/Take off
immediately all contaminated clothing.
Rinse skin with water/shower.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

| | |
|-------------|--|
| | for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P310 | Immediately call a POISON CENTER/ doctor. |
| P405 | Store locked up. |

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Betaine bis(trifluoromethylsulfonyl)imide

CAS: n/a

| Ingredient name | Contents | Classification |
|---|----------|---------------------------|
| Betaine bis(trifluoromethylsulfonyl)imide | >98% | Skin Corr. 1B, Eye Dam. 1 |

4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Contaminated clothing should be removed and washed before being reused.

[Immediately call a doctor / poison center.](#)

Inhalation

Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.

Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

Skin

[Immediately take off all contaminated clothing.](#) Wash the skin immediately with soap and water.

Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

No data available

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO₂). Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Fire causes formation of toxic gases.

5.3. Advice for firefighters

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and avoid inhalation of vapor, skin or eye contact.

6.2 Environmental precautions

Avoid washing into water courses. Avoid contaminating public drains or water supply.

6.3 Methods and materials for containment and cleaning up

Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4 Reference to other sections

For disposal see section 13.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store at moderate temperatures in dry, well-ventilated area. Chemical storage.

Storage class (TRGS 510): LGK 8B

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---------------------------------|-------------------------|
| a) Appearance | Solid. |
| b) Color | Colorless to yellow. |
| c) Odor/taste | No characteristic odor. |
| d) Melting point/freezing point | 66 °C |
| e) Initial boiling point | no data available |
| f) Flammability | no data available |
| g) Upper/lower explosive limits | no data available |
| h) Flash point | no data available |
| i) Autoignition temperature | no data available |
| j) Decomposition temperature | no data available |
| k) pH | no data available |
| l) Viscosity, kinematic | no data available |
| m) Water solubility | no data available |
| n) Partition coefficient | no data available |
| o) Vapor pressure | no data available |
| p) Density | 1.606 g/cm ³ |
| q) Relative vapor density | no data available |
| r) Particle characteristics | no data available |
| s) Explosive properties | no data available |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

t) Oxidizing properties

no data available

9.2 Other safety information

No data available

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

Reacts strongly with bases.

10.4 Conditions to avoid

Avoid contact to strong oxidizers and bases.

10.5 Incompatible materials

Strong oxidizing agents and bases.

10.6 Hazardous decomposition products

High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrous gases (NO_x).

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity

No data available

Skin corrosion/irritation

Skin Corrosion (Cat. 1B)

Serious eye damage/eye irritation

Eye Damage (Cat. 1)

Respiratory or skin sensitization

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation No data available.

Ingestion No data available.

Skin Causes severe skin burn.

Eyes Causes eye damage.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

Additional Information

RTECS: Not available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical. [Do not dispose in communal waste water.](#)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

14 TRANSPORT INFORMATION

14.1 UN number

UN3261

14.2 UN proper shipping name

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Betaine
bis(trifluoromethylsulfonyl)imide)

14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

no data available

Country specific information

Germany

WGK: 3

(Self-Classification)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Betaine bis(trifluoromethylsulfonyl)imide

Revision Date: 5/22/2025

Version: 3

16 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.